Volume 266 **CONTENTS** 10 May 1994

An experimental investigation of concentrated suspension flows in a rectangular channel. CHRISTOPHER J. KOH, PHILIP HOOKHAM and L. G. LEAL *page* 1

Asymptotic analysis of the radiation by volume sources in supersonic rotor acoustics. H. ARDAVAN 33

A computational investigation of inviscid hypervelocity flow of a dissociating gas past a cone at incidence. M. N. MACROSSAN and D. I. PULLIN 69

Flow structure in the frequency-modulated wake of a cylinder. M. NAKANO and D. ROCKWELL 93

Mass transport under partially reflected waves in a rectangular channel. JIANGANG WEN and P. L.-F. LIU 121

On one-dimensional flow of a conducting gas between electrodes – with application to MHD thrusters. M. D. COWLEY and J. H. HORLOCK 147

Turbulence characteristics of the boundary layer on a rotating disk. HOWARD S. LITTELL and JOHN K. EATON 175

Bifurcation and chaos in shape and volume oscillations of a periodically driven bubble with two-to-one internal resonance. Z. C. FENG and L. G. LEAL 209

Solitons, solitary waves, and voidage disturbances in gas-fluidized beds. S. E. HARRIS and D. G. CRIGHTON 243

Propagating Holmboe waves at the interface between two immiscible fluids. O. POULIQUEN, J. M. CHOMAZ and P. HUERRE 277

Evolution of long water waves in variable channels. MICHELLE H. TENG and THEODORE Y. WU 303

Rotating axial flow of a continuously separating mixture. A. A. DAHLKILD and G. AMBERG 319

Energetics of oscillating lifting surfaces by the use of integral conservation laws. ALI R. AHMADI and SHEILA E. WIDNALL 347

CORRIGENDUM 371

REVIEWS

Physics of Shock Waves in Gases and Plasmas, by M. A. Liberman and A. L. Velikovich; Unsteady Interaction of Shock and Detonation Waves in Gases, edited by V. P. Korobeinikov; Shock Wave Reflection Phenomena, by G. Ben-Dor 372

Fluid Dynamics of Viscoelastic Liquids, by D. D. Joseph; Rheological Phenomena in Focus, by D. V. Boger and K. Walters 373

INDEX TO VOLUME 266 377

SCHEDULE OF INTERNATIONAL CONFERENCES ON FLUID MECHANICS 378